

LONDON- WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 5 | Technical Appendices

CFA4 | Kilburn (Brent) to Old Oak Common
Construction assessment (SV-003-004)
Sound, noise and vibration

November 2013

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Department
for Transport

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1 Introduction

- 1.1.1 The sound, noise and vibration appendices comprise four sections. The first of these is an introduction to the relevant policy and methodology (Volume 5: Appendix SV-001-000). This relates to the sound, noise and vibration assessment for all community forum areas (CFA).
- 1.1.2 For the Kilburn to Old Oak Common community forum area (CFA 04), the other three sections are as follows:
- baseline sound, noise and vibration (Volume 5: Appendix SV-002-004);
 - construction sound, noise and vibration (Volume 5: Appendix SV-003-004) (this appendix); and
 - operational sound, noise and vibration (Volume 5: Appendix SV-004-004).
- 1.1.3 The outcomes of the assessment are summarised in Volume 2: CFA Report 4, Kilburn to Old Oak Common (CFA Report 4), Section 11.
- 1.1.4 Maps referred to throughout the sound, noise and vibration appendices are contained in the Volume 5, Sound, Noise and Vibration Map Book.
- 1.1.5 This appendix presents the likely noise and vibration impacts, effects and significant effects arising from the construction of the Proposed Scheme for the Kilburn to Old Oak Common area on:
- people, primarily where they live ('residential receptors') in terms of:
 - individual dwellings;
 - on a wider community basis, including any shared community open areas; and
 - community facilities such as schools, hospitals, places of worship, and also commercial properties such as offices and hotels, collectively described as 'non-residential receptors' and 'quiet areas'.
- 1.1.6 The assessment of likely impacts, effects and significant effects from construction noise and vibration on agricultural, community, ecological or heritage receptors and the assessment of tranquillity are presented in the following documents within Volume 5:
- | | |
|-----------------------------------|---------------------|
| • Agriculture, forestry and soils | Appendix AG-001-004 |
| • Community | Appendix CM-001-004 |
| • Ecology | Appendix EC-005-004 |
| • Heritage | Appendix CH-003-004 |
| • Landscape and Visual | Appendix LV-001-004 |

1.2 Evaluation of impacts and effects

- 1.2.1 This appendix provides a quantitative assessment of construction noise and vibration impacts/effects and a qualitative assessment of likely significant effects, based on the impacts/effects identified and other local context information consistent with the scope and methodology defined for the Proposed Scheme.
- 1.2.2 Indirect effects arising from temporary changes in traffic patterns on the existing road and rail network as a consequence of constructing the Proposed Scheme are also reported in this appendix, where they will occur within the study area (as defined in Volume 5: Appendix SV-001-000).
- 1.2.3 In undertaking the assessment of sound and vibration, consistent with Environmental Impact Assessment (EIA) Regulations and emerging National Planning Practice Guidance¹ a differentiation between impacts effects, adverse effects and significant effects is made. Further information is provided in Volume 5: Appendix SV-001-000.
- 1.2.4 The assessment of impacts and effects has been undertaken at assessment locations that are representative of a number of dwellings or other sensitive receptors. The assessment locations employed in this assessment are presented in the Maps SV-03-003b and SV-03-004 (Volume 5, Sound, Noise and Vibration Map Book).

¹ Information is provided in the Department for Communities and Local Government's emerging National Planning Practice Guidance – Noise <http://planningguidance.planningportal.gov.uk>, (refer to the noise exposure hierarchy), as available on 14th October 2013.

2 Scope, assumptions and limitations

2.1 Regional and local policy guidance

2.1.1 The policy framework for sound, noise and vibration is set out in Volume 1 and in Volume 5: Appendix SV-001-000. As part of the engagement with local authorities through the Planning Forum Sub Group - Acoustics, information regarding any specific local planning guidance in respect of noise and vibration has been requested. Whilst no information has been received for this study area via the Planning Forum Sub Group - Acoustics, the following local policy guidance on noise and vibration has been identified:

- The Brent Unitary Development Plan 2004;
- The Kensington and Chelsea Unitary Development Plan 2002 to December 2010;
- Ealing Unitary Development Plan 2002 to 2017;
- Hammersmith Unitary Development Plan August 2003 to July 2013;
- City of Westminster Unitary Development Plan January 2007; and
- Camden Local Development Framework November 2010.

2.1.2 This guidance has been considered as part of formulating the detailed application of the impact and significance criteria set out in Volume 5: Appendix SV-001-000.

2.2 Engagement

2.2.1 Details of engagement on a route-wide basis with the local and county authorities' Environmental Health Practitioners via the Planning Forum Sub Group - Acoustics, is set out in Volume 1.

2.2.2 Engagement with communities has been via the Community Forums, as set out in Volume 1. In respect of sound, noise and vibration the following discussions have taken place:

- general discussions in respect of local issues, including possible ways to avoid and mitigate the potential impacts of noise or vibration;
- September / October 2012: a specific presentation about sound, noise and vibration with discussion afterwards with one of the project team specialists;
- November / December 2012: specific request for the Community Forum regarding baseline sound monitoring locations;
- January / February 2013: feedback to the Community Forum on any proposed baseline monitoring locations; and
- verbal / written responses to questions and sound, noise and vibration.

2.3 Methodology

- 2.3.1 The methodology used for the assessment of airborne sound, ground-borne sound and vibration impacts and the determination of significant effects is defined in the Scope and Methodology Report (SMR) (Volume 5: Appendix CT-001-000/1). Further clarification regarding specific areas is presented in the SMR addendum (Volume 5: Appendix CT-001-000/2). Further information is contained in Volume 5: Appendix SV-001-000.

2.4 Assumptions

- 2.4.1 Route-wide assumptions are outlined in Volume 1 and are further detailed in Volume 5: Appendix SV-001-000. Local assumptions that apply to the assessment of construction sound noise and vibration within this area are set out in Volume 2: CFA Report 4.
- 2.4.2 Tunnel boring machines (TBM) will be used to excavate the tunnels. Materials (including tunnel lining segments), people and equipment will be transported from the surface to each TBM using small construction trains, which will travel at relatively low speeds. Excavated material from each TBM will be transported to the surface by conveyor. It has been assumed that significant noise and vibration effects arising from use of the temporary railway will be avoided through appropriate design and maintenance specification. Other methods material movement may be employed; however, these will result in lower ground-borne noise and vibration.

2.5 Limitations

- 2.5.1 The route-wide limitations and the approach adopted to assure that they will not impact the robust assessment of sound, noise and vibration are presented in Volume 5: Appendix SV-001-000. No specific additional limitations are identified for this study area.

3 Environmental baseline

3.1 Existing baseline

- 3.1.1 Baseline sound level data has been collected at locations representative of the airborne sound-sensitive receptors. The existing and future baseline airborne sound levels derived from these measurements are given in Volume 5: Appendix SV-002-004. Details of the baseline data collection and the methodology are given in Volume 5: Appendix SV-001-000 and specifically for this study area in Volume 5: Appendix SV-002-004.

Future baseline

- 3.1.2 The assessment of noise from construction activities assumes a baseline year of 2017 which represents the period immediately prior to the start of the construction period. As a reasonable worst case, it has been assumed that no change in baseline sound levels will occur between the existing baseline (2012/13) and the future baseline year of 2017. The assessment of noise from construction traffic assumes a baseline year of 2021, representative of the middle of the construction period when the construction traffic flows are expected to be at their peak. Further information can be found in the Traffic and Transport assessment (Volume 5: Appendix TR-001-000).

4 Effects arising during construction

4.1 Introduction

4.1.1 The assessment is reported first for ground-borne sound and vibration and then for airborne sound. Under each of these headings, the results of the quantitative identification of impacts and effects are presented. This is followed by the identification of significant effects and the evidence used to support these conclusions.

4.1.2 The structure of this assessment report is as follows:

- Avoidance and mitigation measures
- Quantitative identification of impact and effects
 - Ground-borne sound and vibration
 - residential
 - non-residential
 - Airborne sound
 - residential
 - non-residential
- Assessment of impacts and effects
 - residential receptors: direct effects – dwellings
 - residential receptors: direct effects – communities
 - residential receptors: indirect effects
 - non-residential receptors: direct effects
 - non-residential receptors: indirect effects
 - cumulative effects from the Proposed Scheme and other committed development

4.2 Avoidance and mitigation measures

4.2.1 These measures are set out in Volume 2: CFA Report 04.


4.3 Quantitative identification of impacts and effects

Ground-borne sound and vibration

4.3.1 No impacts have been predicted as the result of construction ground-borne sound and vibration in this area.

Airborne sound: direct impacts and effects

- 4.3.2 Activities associated with the construction phases of the Proposed Scheme will generate airborne noise. The assessment of the likely impacts and significant effects as a result of the construction noise has considered the effects on:
- residential receptors, both as individual dwellings and communities; and
 - non-residential receptors, including quiet areas.
- 4.3.3 For each type of receptor, subject to the screening distances identified, and based upon supplied plant information from engineers, the typical and highest monthly $L_{pAeq,T}$ noise levels from construction activities have been calculated at the façade of all assessment locations, which are representative of a number of receptors in the study area.
- 4.3.4 The assessment results, impact criteria and significance criteria for the assessment of the scheme at residential and non-residential receptors are presented in Table 1 and Table 2 respectively
- 4.3.5 The construction activity resulting in highest forecast noise levels is reported in Table 1 and Table 2 for each assessment location and time period, where the highest forecast noise level from any individual construction activity is above $L_{pAeq,T}$ 40dB during the daytime and evening periods and $L_{pAeq,T}$ 35dB during the night-time. Where the highest forecast noise level from any individual construction activity is less than $L_{pAeq,T}$ 40dB during the daytime and evening or $L_{pAeq,T}$ 35dB during the night-time no activities have been reported.
- 4.3.6 Explanation of the information within Table 1 and Table 2 is provided in Volume 5: Appendix SV-001-000, with the following additional notes:

 Where the significant effect column is highlighted in pink, then a significant effect is identified at the referenced community, or individual non-residential receptor

* Significant effect – the quantitative impact methodology has identified either:

- 1) no impact at this receptor but further information (see assessment) has identified that a significant effect is nonetheless likely; or
- 2) an impact at this receptor which, based upon further qualitative receptor information, (see assessment text) does not give rise to a significant effect.

~ Significant effect - impacted dwellings which are either spatially remote from larger defined residential areas, or a small number of dwellings whose impact is not considered to represent the larger defined residential area, and as such are not considered to be part of a community significant effect.

A Type of effect – adverse effect

S Type of effect – significant adverse effect

NA Type of effect – not generally an adverse effect

B Type of effect – for non-residential receptors further detail about the type of effect is set out in

	the text of Volume 5: Appendix SV-001-000
R	Type of receptor - residential
G	Type of receptor: (G1) theatres, large auditoria and concert halls; (G2) sound recording and broadcast studios; (G3) places of meeting for religious worship, courts, cinemas, lecture theatres, museums and small auditoria or halls; (G4) schools, colleges, hospitals, hotels and libraries; or (G5) offices and general commercial premises.
T	Receptor design – typical
S	Receptor design - special
H	Existing environment – high existing ambient noise levels: daytime level more than 75dB, evening-time level more than 65dB or night-time level more than 55dB L_{pAeq} at the façade.
NI	Mitigation effect - identified as likely to qualify for noise insulation under the draft Construction Code of Practice (draft CoCP).
D,E,N	Impact duration (months) – duration of impact during the day (D), evening (E) or night (N).

Table 1: Assessment of construction noise at residential receptors

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700- 1900	Evening 1900- 2300	Night 2300- 0700												
508494	Victoria Road, London	55/68 [C]	48/53 [>C]	48/53 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	306	R	T	H	-	-	-	-		
510425	Wales Farm Road, London	70/70 [C]	<40/45 [>C]	39/45 [>C]	Day: Old Oak Common highway works - Victoria Road North and south widening works; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	72	R	T	H	-	-	-	-		
515324	Gorst Road, London	44/54 [B]	<40/42 [>C]	37/42 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	1	R	T	H	-	-	-	-		
516711	Park Royal Road, London	<40/50 [B]	<40/<40 [>C]	<35/38 [>C]	Day: Victoria Road crossover box compound - demolitions; and Night: Northolt (east) tunnels construction	NA	9	R	T	H	-	-	-	-		

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					(Victoria Road crossover box main compound).										
516773	Gorst Road, London	44/54 [B]	<40/42 [>C]	37/42 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	5	R	T	H	-	-	-	-	
516964	Cullen Way, east Acton	45/56 [>C]	<40/44 [>C]	37/44 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	10	R	T	H	-	-	-	-	
518427	Wells House Road, London	64/74 [>C]	46/48 [>C]	46/48 [>C]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	A	6	R	T	H	-	-	D 6	-	CSV04-Co7
519065	Midland Terrace, London	59/68 [A]	46/50 [B]	46/50 [>C]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	A	74	R	T	H	-	-	D 13	-	CSV04-Co6

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
700045	Wells House Road, London	78/85 [A]	48/50 [B]	48/50 [C]	Day: Old Oak Common Lane summary - Old Oak Common Lane lowering works; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	S	13	R	T	-	-	-	D 55	NI	CSV04-Co7
700047	Wells House Road, London	73/83 [A]	48/50 [B]	48/50 [C]	Day: Old Oak Common Lane summary - Old Oak Common Lane lowering works; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	S	23	R	T	-	-	-	D 35	NI	CSV04-Co7
700048	Braybrook Street, London	49/57 [A]	<40/41 [A]	38/41 [B]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	15	R	T	-	-	-	-	-	
700049	Braybrook Street, London	49/57 [A]	<40/40 [A]	38/40 [B]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	17	R	T	-	-	-	-	-	
700050	Braybrook Street, London	48/56 [A]	<40/40 [A]	37/40 [B]	Day: Old Oak Common - demolition and site preparation; and Night: Old Oak Common - general works.	NA	11	R	T	-	-	-	-	-	
700051	Braybrook Street, London	47/55 [A]	<40/<40 [A]	36/39 [B]	Day: Old Oak Common - demolition and site preparation; and Night: Old Oak Common - general works.	NA	23	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
700052	Wells House Road, London	52/60 [A]	41/46 [B]	41/46 [>C]	Day: Old Oak Common Lane summary - Old Oak Common Lane lowering works; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	26	R	T	H	-	-	-	-	
700053	Wells House Road, London	67/73 [A]	<40/<40 [B]	<35/39 [C]	Day: Old Oak Common Lane overbridge - Old Oak Common area bridge works (Old Oak Common Lane and Central Line Bridge satellite compounds); and Night: Victoria Road tunnel drive compound - general works.	A	17	R	T	-	-	-	D 55	-	CSV04-Co7
700055	Old Oak Common Lane, London	55/62 [A]	43/46 [B]	43/46 [>C]	Day: Old Oak Common - D-wall construction (West End Box); Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	25	R	T	H	-	-	-	-	
700056	Midland Terrace, London	57/66 [A]	46/49 [B]	46/49 [>C]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	A	25	R	T	H	-	-	D 6	-	CSV04-Co6*
700403	Wells House Road, London	63/76 [A]	55/60 [B]	55/60 [>C]	Day: Victoria Road tunnel drive compound - demolitions and site preparation; Evening: Victoria Road tunnel drive compound - general works; and Night: Victoria Road tunnel drive compound -	S	28	R	T	H	-	-	D 15; N 59	NI	CSV04-Co7

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					general works.										
700404	Wells House Road, London	61/74 [A]	54/59 [B]	54/59 [>C]	Day: Victoria Road tunnel drive compound - demolitions and site preparation; Evening: Victoria Road tunnel drive compound - general works; and Night: Victoria Road tunnel drive compound - general works.	S	11	R	T	H	-	-	D 9; N 39	NI	CSV04-Co7
700405	Shaftesbury Gardens, London	80/80 [>C]	43/48 [>C]	43/48 [>C]	Day: Old Oak Common highway works - Victoria Road north and south widening works; Evening: Atlas Road pre-casting satellite compound - general works; and Night: Atlas Road pre-casting satellite compound - general works.	S	74	R	T	H	-	-	D 21	NI [^]	CSV04-Co5
700406	Shaftesbury Gardens, London	78/79 [>C]	49/54 [>C]	49/54 [>C]	Day: Old Oak Common highway works - Victoria Road north and south widening works; Evening: Atlas Road pre-casting satellite compound - general works; and Night: Atlas Road pre-casting satellite compound - general works.	S	24	R	T	H	-	-	D 20	NI [^]	CSV04-Co5
700407	Hythe Road, London	52/60 [A]	41/44 [B]	41/44 [>C]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	1	R	T	H	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
700408	Scrubs Lane, London	42/50 [A]	<40/<40 [B]	<35/39 [>C]	Day: Old Oak Common - demolition and site preparation; and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	NA	4	R	T	H	-	-	-	-	
700409	Salter Street, London	49/56 [A]	<40/44 [B]	40/44 [>C]	Day: Old Oak Common - demolition and site preparation; Evening: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound); and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	NA	2	R	T	H	-	-	-	-	
700412	Stephenson Street, London	62/67 [A]	60/60 [C]	60/60 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	S	11	R	T	H	-	-	D 4; N 66	NI^	CSV04-Co4
700413	Stephenson Street, London	61/65 [A]	60/60 [C]	60/60 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	S	19	R	T	H	-	-	N 66	NI^	CSV04-Co4*
700414	Harley Road,	59/63	58/59	58/59	Day: Atlas Road site - demolitions and site preparation;	NA	13	R	T	H	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
	London	[C]	[>C]	[>C]	Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.										
700415	Harley Road, London	59/63 [C]	58/58 [>C]	58/58 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	5	R	T	H	-	-	-	-	
700416	Harley Road, London	55/59 [C]	53/54 [>C]	53/54 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	83	R	T	H	-	-	-	-	
700417	Victoria Road, London	63/73 [B]	54/59 [>C]	54/58 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	S	6	R	T	H	-	-	D 19	-	CSV04-Co8

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
700419	Old Oak Common Lane, London	50/57 [A]	<40/41 [B]	39/41 [C]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	1	R	T	-	-	-	-	-		
700477	Salusbury Road, London	66/74 [C]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	11	R	T	H	-	-	-	-		
700483	Kilburn Lane, London	50/57 [C]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	21	R	T	H	-	-	-	-		
700493	Claremont Road, London	78/84 [C]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	S	12	R	T	H	-	-	D 13	NI^	CSV04-Co2	
709503	Kilburn Lane, London	71/79 [C]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	S	14	R	T	H	-	-	D 6	NI	CSV04-Co2	
709504	Fernhead Road, London	43/48 [C]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	3	R	T	H	-	-	-	-		
709505	Portnall Road, London	60/69 [C]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	27	R	T	H	-	-	-	-		
709506	Kilburn Lane, London	65/72 [C]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	10	R	T	H	-	-	-	-		
720002	School Road, London	70/82 [B]	61/66 [>C]	61/66 [>C]	Day: Victoria Road tunnel drive compound - demolitions and site preparation; Evening: Euston and HS1 link tunnels construction	S	2	R	T	H	-	-	D 24; E 38;	NI	CSV04-Do1	

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					(Victoria Road tunnel drive main compound); Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).								N 60		
720004	Victoria Road, London	53/59 [A]	<40/42 [A]	38/42 [B]	Day: Central Line overbridge phases 1 to 3 - Old Oak Common area bridge works (Old Oak Common Lane and Central Line bridge satellite compounds); Evening: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound); and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	NA	1	R	T	-	-	-	-	-	
720005	Albert Road, London	61/69 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	A	36	R	T	-	-	-	D 6	-	CSV04-Co1
720007	Harley Road, London	43/54 [B]	<40/42 [C]	37/42 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	52	R	T	-	-	-	-	-	
720008	Minet Avenue, London	43/51 [A]	40/44 [A]	40/44 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	NA	114	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
					compound.											
720011	Portal Way, London	56/66 [A]	42/48 [A]	42/48 [B]	Day: Old Oak Common highway works - Victoria Road North and south widening works; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	A	1	R	T	-	-	-	D 9	-	~	
720012	Seacole Close, London	44/52 [A]	<40/<40 [A]	<35/38 [B]	Day: Old Oak Common highway works - Victoria Road North and south widening works; and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	1	R	T	-	-	-	-	-		
720013	Garrett Close, London	49/55 [A]	<40/41 [A]	37/41 [B]	Day: Old Oak Common - demolition and site preparation; Evening: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound); and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	NA	1	R	T	-	-	-	-	-		
720014	Victoria Road, London	65/76 [C]	55/60 [>C]	55/60 [>C]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction	S	150	R	T	-	-	-	D 33; E 30; N 75	NI^	CSV04-Co8	

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					(Victoria Road crossover box main compound).										
720016	Chase Road, London	47/58 [A]	41/46 [A]	41/46 [B]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	2	R	T	-	-	-	-	-	
720020	Sunbeam Road, London	50/62 [A]	44/49 [A]	44/49 [B]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	3	R	T	-	-	-	-	-	
720023	Telford Way, London	51/58 [A]	<40/43 [A]	39/43 [B]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	4	R	T	-	-	-	-	-	
720025	Stephenson Street, London	61/66 [A]	60/60 [C]	60/60 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	S	11	R	T	-	-	-	D 4; E 66; N 66	NI^	CSV04-Co4

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					compound.										
720026	Goodhall Street, London	48/56 [A]	42/47 [A]	42/47 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	38	R	T	-	-	-	-	-	
720027	Goodhall Street, London	52/62 [A]	46/50 [A]	46/50 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	30	R	T	-	-	-	-	-	CSV04-Co4*
720028	Stoke Place, London	47/56 [A]	42/47 [A]	42/47 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	71	R	T	-	-	-	-	-	
720029	Old Oak Lane, London	53/64 [A]	46/50 [A]	46/50 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	NA	24	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					compound.										
720031	Bashley Road, London	59/68 [B]	48/54 [C]	48/54 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Atlas Road pre-casting satellite compound - general works; and Night: Atlas Road pre-casting satellite compound - general works.	A	24	R	T	-	-	-	-	-	
720037	Telford Way, London	52/59 [A]	<40/43 [A]	39/43 [B]	Day: Old Oak Common - demolition and site preparation; Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	4	R	T	-	-	-	-	-	
720038	Telford Way, London	51/59 [A]	<40/40 [A]	36/40 [B]	Day: Central Line Overbridge phases 1 to 3 - Old Oak Common area bridge works (Old Oak Common Lane and Central Line bridge satellite compounds); Evening: Old Oak Common - general works; and Night: Old Oak Common - general works.	NA	1	R	T	-	-	-	-	-	
720039	Old Oak Lane, London	61/75 [>C]	56/58 [>C]	56/58 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Atlas Road pre-casting satellite compound - general works; and Night: Atlas Road pre-casting satellite compound - general works.	S	9	R	T	-	-	-	D 5; E 43; N 61	-	CSV04-Co5*

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
720041	Station Road, London	51/59 [>C]	52/53 [>C]	52/53 [>C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	A	36	R	T	-	-	-	-	-	
720042	Hythe Road, London	44/51 [A]	<40/<40 [A]	<35/39 [B]	Day: Old Oak Common - demolition and site preparation; and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	NA	1	R	T	-	-	-	-	-	
720047	Ashmore Road, London	51/57 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	32	R	T	-	-	-	-	-	
720048	Bravington Road, London	46/51 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	12	R	T	-	-	-	-	-	
720049	Bravington Road, London	46/51 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	17	R	T	-	-	-	-	-	
720050	Claremont Road, London	63/70 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	S	29	R	T	-	-	-	D 7	-	CSV04-Co2
720051	Salusbury Road, London	77/84 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	S	31	R	T	-	-	-	D 21	NI^	CSV04-Co2
720053	Denmark	56/64	-	-	Day: Salusbury Road vent shaft - demolition -	NA	82	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
	Road, London	[A]			Salusbury Road redundant building.										
720054	Albert Road, London	68/75 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	S	73	R	T	-	-	-	D 16	NI^	CSV04-Co1
720055	Salusbury Road, London	50/55 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	8	R	T	-	-	-	-	-	
720056	Salusbury Road, London	47/53 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	9	R	T	-	-	-	-	-	
720057	Harvist Road, London	50/56 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	13	R	T	-	-	-	-	-	
720058	Brondesbury Road, London	49/54 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	11	R	T	-	-	-	-	-	
720059	Brondesbury Road, London	59/67 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	A	22	R	T	-	-	-	D 4	-	CSV04-Co3
720061	Claremont Road, London	52/59 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	20	R	T	-	-	-	-	-	
720062	Harvist Road, London	57/63 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	24	R	T	-	-	-	-	-	
720063	Fernhead Road, London	51/57 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	35	R	T	-	-	-	-	-	

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
720064	Saltram Crescent, London	50/55 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	8	R	T	-	-	-	-	-	
720066	Harvist Road, London	54/59 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	28	R	T	-	-	-	-	-	
720067	Kingswood Avenue, London	44/49 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	5	R	T	-	-	-	-	-	
720068	Summerfield Avenue, London	46/51 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	16	R	T	-	-	-	-	-	
720069	Summerfield Avenue, London	46/51 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	22	R	T	-	-	-	-	-	
720070	Victoria Road, London	44/49 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	18	R	T	-	-	-	-	-	
720071	Victoria Road, London	40/45 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	23	R	T	-	-	-	-	-	
720072	Hartland Road, London	42/48 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	30	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720073	Summerfield Avenue, London	47/53 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	19	R	T	-	-	-	-	-		
720074	Albert Road, London	59/68 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	A	74	R	T	-	-	-	D 6	-	CSVo4-Co1	
720075	Saltram Crescent, London	43/48 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	39	R	T	-	-	-	-	-		
720076	Fernhead Road, London	45/50 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	8	R	T	-	-	-	-	-		
720077	Portnall Road, London	52/59 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	43	R	T	-	-	-	-	-		
720078	Ashmore Road, London	45/50 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	32	R	T	-	-	-	-	-		
720079	Bravington Road, London	45/50 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	19	R	T	-	-	-	-	-		
720080	Kilburn Lane, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	23	R	T	-	-	-	-	-		
720081	Kilburn Lane, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	16	R	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720082	Severn Avenue, London	<40/45 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	29	R	T	-	-	-	-	-		
720083	Selby Square, London	<40/44 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	8	R	T	-	-	-	-	-		
720084	Dowland Street, London	<40/44 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	53	R	T	-	-	-	-	-		
720086	Carlton Vale, London	46/55 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	85	R	T	-	-	-	-	-		
720091	Bramshill Road, London	42/49 [A]	<40/41 [A]	37/41 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	18	R	T	-	-	-	-	-		
720092	Acton Lane, London	45/53 [A]	<40/45 [A]	40/45 [B]	Day: Atlas Road site - demolitions and site Preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	30	R	T	-	-	-	-	-		

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
720104	Seacole Close, London	42/49 [A]	<40/<40 [A]	<35/36 [B]	Day: Old Oak Common highway works - Victoria Road north and south widening works; and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	NA	58	R	T	-	-	-	-	-	
720109	Acton Lane, London	43/50 [A]	<40/43 [A]	38/43 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	12	R	T	-	-	-	-	-	
720113	Bramshill Road, London	47/54 [A]	44/48 [A]	44/48 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	20	R	T	-	-	-	-	-	
720115	Fortune Way, London	41/49 [A]	<40/40 [A]	35/40 [B]	Day: Atlas Road site - demolitions and site preparation; and Night: Willesden EuroTerminal sidings main compound.	NA	13	R	T	-	-	-	-	-	
720116	Enterprise Way, London	42/51 [A]	<40/<40 [A]	35/39 [B]	Day: Atlas Road site - demolitions and site preparation; and Night: Willesden EuroTerminal sidings main	NA	6	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
					compound.											
720117	Brondesbury Road, London	47/52 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	11	R	T	-	-	-	-	-		
720119	Brondesbury Road, London	50/57 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	13	R	T	-	-	-	-	-		
720120	Salusbury Road, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	40	R	T	-	-	-	-	-		
720122	Carlton Vale, London	<40/41 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	88	R	T	-	-	-	-	-		
720125	Kilburn Lane, London	45/51 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	1	R	T	-	-	-	-	-		
720126	Kilburn Lane, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	47	R	T	-	-	-	-	-		
720127	Kilburn Lane, London	47/54 [A]	-	-	Day: Salusbury Road vent shaft - site preparation works.	NA	10	R	T	-	-	-	-	-		
720128	Fernhead Road, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	8	R	T	-	-	-	-	-		
720129	Fernhead Road, London	43/48 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	12	R	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720130	Ashmore Road, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	12	R	T	-	-	-	-	-		
720131	Fernhead Road, London	41/47 [A]	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	NA	32	R	T	-	-	-	-	-		
720132	Verdi Crescent, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	19	R	T	-	-	-	-	-		
720133	Herries Street, London	41/46 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	6	R	T	-	-	-	-	-		
720134	Dowland Street, London	42/47 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	16	R	T	-	-	-	-	-		
720135	Herries Street, London	40/45 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	14	R	T	-	-	-	-	-		
720136	Harvist Road, London	50/57 [A]	-	-	Day: Salusbury Road vent shaft - site set-up.	NA	27	R	T	-	-	-	-	-		
720142	Gorst Road, London	43/53 [A]	<40/42 [A]	37/42 [B]	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction	NA	2	R	T	-	-	-	-	-		

Assessment location		Impact criteria			Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					(Victoria Road crossover box main compound).										
720143	Standard Road, London	42/52 [A]	<40/41 [A]	36/41 [B]	Day: Victoria Road crossover box compound - demolitions; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	7	R	T	-	-	-	-	-	
720255	Station Road, London	49/58 [B]	50/51 [B]	50/51 [C]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	A	30	R	T	-	-	-	-	-	
720256	Station Road, London	46/55 [A]	41/46 [A]	41/46 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	14	R	T	-	-	-	-	-	
720257	Station Road, London	45/53 [A]	40/45 [A]	40/45 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	NA	3	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					compound.										
720258	Station Road, London	48/55 [A]	45/49 [A]	45/49 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	17	R	T	-	-	-	-	-	
720259	Tubbs Road, London	45/53 [A]	<40/44 [A]	40/44 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	5	R	T	-	-	-	-	-	
720260	Ranelagh Road, London	44/52 [A]	<40/44 [A]	39/44 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	18	R	T	-	-	-	-	-	
720261	Wendover Road, London	45/53 [A]	<40/44 [A]	39/44 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	NA	26	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					compound.										
720262	Wendover Road, London	44/52 [A]	<40/43 [A]	39/43 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	25	R	T	-	-	-	-	-	
720263	Tubbs Road, London	46/54 [A]	40/45 [A]	40/45 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	15	R	T	-	-	-	-	-	
720264	Nightingale Road, London	44/52 [A]	<40/44 [A]	39/44 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	14	R	T	-	-	-	-	-	
720265	Wendover Road, London	44/52 [A]	<40/43 [A]	39/43 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	NA	21	R	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			Construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
					compound.										
720266	Tubbs Road, London	47/54 [A]	42/47 [A]	42/47 [B]	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	NA	24	R	T	-	-	-	-	-	

Table 2: Assessment of construction noise at non-residential receptors

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
508272	Portal Way, London	50/62	41/45	41/45	Day: Victoria Road crossover box compound - demolitions; Evening: Victoria Road crossover box compound - general works; and Night: Victoria Road crossover box compound - general works.	B	1	G4	T	H	-	-	-	-	
508272	Portal Way, London	50/62	-	-	Day: Victoria Road crossover box compound - demolitions.	B	12	G5	T	H	-	-	-	-	
508494	Victoria Road, London	55/68	-	-	Day: Victoria Road crossover box compound - demolitions.	B	7	G5	T	H	-	-	-	-	
510593	Unnamed Road, east Acton	50/63	44/49	-	Day: Victoria Road crossover box compound - demolitions; and Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	B	2	G3	T	H	-	-	-	-	
515324	Gorst Road, London	44/54	<40/42	37/42	Day: Victoria Road crossover box compound - demolitions; Evening: Northolt (east) tunnels construction (Victoria Road crossover box main compound); and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	B	1	G4	T	H	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
515324	Gorst Road, London	44/54	-	-	Day: Victoria Road crossover box compound - demolitions.	B	26	G5	T	H	-	-	-	-	
515942	School Road, London	60/72	-	-	Day: Victoria Road crossover box compound - demolitions.	B	67	G5	T	H	-	-	-	-	
516468	Sunbeam Road, east Acton	48/60	-	-	Day: Victoria Road crossover box compound - demolitions.	B	5	G5	T	H	-	-	-	-	
516711	Park Royal Road, London	<40/50	<40/<40	-	Day: Victoria Road crossover box compound - demolitions.	B	1	G3	T	H	-	-	-	-	
516711	Park Royal Road, London	<40/50	<40/<40	<35/38	Day: Victoria Road crossover box compound - demolitions; and Night: Northolt (east) tunnels construction (Victoria Road crossover box main compound).	B	1	G4	T	H	-	-	-	-	
516711	Park Royal Road, London	<40/50	-	-	Day: Victoria Road crossover box compound - demolitions.	B	59	G5	T	H	-	-	-	-	
516773	Gorst Road, London	44/54	-	-	Day: Victoria Road crossover box compound - demolitions.	B	29	G5	T	H	-	-	-	-	
516964	Cullen Way, east Acton	45/56	-	-	Day: Victoria Road crossover box compound - demolitions.	B	64	G5	T	H	-	-	-	-	
700055	Old Oak Common Lane,	55/62	43/46	43/46	Day: Old Oak Common - D-wall construction (West End Box); Evening: Old Oak Common - general works;	B	1	G4	T	H	-	-	D 44	-	CSVo4-No4

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
	London				and Night: Old Oak Common - general works.										
700055	Old Oak Common Lane, London	55/62	-	-	Day: Old Oak Common - D-wall construction (West End Box).	B	1	G5	T	H	-	-	-	-	
700407	Hythe Road, London	52/60	-	-	Day: Old Oak Common - demolition and site preparation.	B	37	G5	T	H	-	-	-	-	
700408	Scrubs Lane, London	42/50	<40/<40	<35/39	Day: Old Oak Common - demolition and site preparation; and Night: Euston and HS1 link tunnels construction (Victoria Road tunnel drive main compound).	B	1	G4	T	H	-	-	-	-	
700408	Scrubs Lane, London	42/50	-	-	Day: Old Oak Common - demolition and site preparation.	B	11	G5	T	H	-	-	-	-	
700409	Salter Street, London	49/56	-	-	Day: Old Oak Common - demolition and site preparation.	B	6	G5	T	H	-	-	-	-	
700410	Hythe Road, London	43/51	-	-	Day: Old Oak Common - demolition and site preparation.	B	1	G5	T	H	-	-	-	-	
700411	Hythe Road, London	53/60	-	-	Day: Old Oak Common - demolition and site preparation.	B	3	G5	T	H	-	-	-	-	

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
700413	Stephenson Street, London	61/65	-	-	Day: Atlas Road site - demolitions and site preparation.	B	6	G5	T	H	-	-	-	-	
700416	Harley Road, London	55/59	53/54	-	Day: Atlas Road site - demolitions and site preparation; and Evening: Willesden EuroTerminal sidings main compound.	B	1	G3	T	H	-	-	-	-	
700417	Victoria Road, London	63/73	-	-	Day: Victoria Road crossover box compound - demolitions.	B	1	G5	T	H	-	-	-	-	
700418	Victoria Road, London	63/76	57/61	57/61	Day: Victoria Road Crossover Box Compound - Victoria Road Crossover Box Compound - Demolitions, Evening: - Northolt (East) Tunnels Construction (Victoria Road Crossover Box Main Compound), Night: - Northolt (East) Tunnels Construction (Victoria Road Crossover Box Main Compound)	B	1	G4	T	H	-	-	D 57; E 26; N 75	-	CSV04-No5
700477	Salisbury Road, London	66/74	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	10	G5	T	H	-	-	-	-	
700493	Claremont Road, London	78/87	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G3	T	H	-	-	D 18	-	CSV04-No3
700493	Claremont Road, London	78/87	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	2	G5	T	H	-	-	D 13	-	*

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
709502	Albert Road, London	61/66	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G3	T	H	-	-	-	-		
709503	Kilburn Lane, London	71/79	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	10	G5	T	H	-	-	D 6	-	*	
709504	Fernhead Road, London	43/48	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G4	T	H	-	-	-	-		
709506	Kilburn Lane, London	65/72	-	-	Day: Salusbury Road vent shaft - site set-up.	B	2	G4	T	H	-	-	D 2	-	*	
709506	Kilburn Lane, London	65/72	-	-	Day: Salusbury Road vent shaft - site set-up.	B	7	G5	T	H	-	-	-	-		
720002	School Road, London	70/82	-	-	Day: Victoria Road tunnel drive compound - demolitions and site preparation.	B	7	G5	T	H	-	-	D 21	-	*	
720003	Victoria Road, London	77/87	-	-	Day: Old Oak Common highway works - Victoria Road north and south widening works.	B	1	G5	T	H	-	-	D 21	-	CSV04-No6	
720005	Albert Road, London	61/69	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	1	G5	T	-	-	-	-	-		
720006	Volt Avenue, London	45/54	-	-	Day: Atlas Road site - demolitions and site preparation	B	10	G5	T	-	-	-	-	-		
720007	Harley Road,	43/54	<40/42	37/42	Day: Atlas Road site - demolitions and site preparation;	B	2	G4	T	-	-	-	D 4	-		

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
	London				Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.										
720007	Harley Road, London	43/54	-	-	Day: Atlas Road site - demolitions and site preparation.	B	3	G5	T	-	-	-	-	-	
720008	Minet Avenue, London	43/51	-	-	Day: Atlas Road site - demolitions and site preparation.	B	1	G5	T	-	-	-	-	-	
720009	Volt Avenue, London	46/55	-	-	Day: Atlas Road site - demolitions and site preparation.	B	7	G5	T	-	-	-	-	-	
720010	Acton Lane, London	46/54	-	-	Day: Atlas Road site - demolitions and site preparation.	B	6	G5	T	-	-	-	-	-	
720015	Wales Farm Road, London	60/71	-	-	Day: Victoria Road crossover box compound - demolitions.	B	14	G5	T	-	-	-	-	-	
720016	Chase Road, London	47/58	-	-	Day: Victoria Road crossover box compound - demolitions.	B	4	G5	T	-	-	-	-	-	
720017	St. Leonards Road, London	51/63	-	-	Day: Victoria Road crossover box compound - demolitions.	B	12	G5	T	-	-	-	-	-	
720019	Chase Road, London	62/73	-	-	Day: Victoria Road crossover box compound - demolitions.	B	12	G5	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720020	Sunbeam Road, London	50/62	-	-	Day: Victoria Road crossover box compound - demolitions.	B	8	G5	T	-	-	-	-	-		
720021	Standard Road, London	45/55	-	-	Day: Atlas Road site - demolitions and site preparation.	B	3	G5	T	-	-	-	-	-		
720022	Victoria Road, London	59/72	-	-	Day: Victoria Road tunnel drive compound - demolitions and site preparation.	B	5	G5	T	-	-	-	-	-		
720023	Telford Way, London	51/58	-	-	Day: Old Oak Common - demolition and site preparation.	B	5	G5	T	-	-	-	-	-		
720024	Victoria Road, London	57/70	-	-	Day: Old Oak Common highway works - Victoria Road north and south widening works.	B	13	G5	T	-	-	-	-	-		
720028	Stoke Place, London	47/56	-	-	Day: Atlas Road site - demolitions and site preparation.	B	2	G5	T	-	-	-	-	-		
720029	Old Oak Lane, London	53/64	-	-	Day: Atlas Road site - demolitions and site preparation.	B	1	G5	T	-	-	-	-	-		
720030	Hythe Road, London	48/55	-	-	Day: Old Oak Common - demolition and site preparation.	B	8	G5	T	-	-	-	-	-		
720031	Volt Avenue, London	55/68	-	-	Day: Atlas Road site - demolitions and site preparation.	B	4	G5	T	-	-	-	-	-		
720032	Cunard Road,	46/56	-	-	Day: Atlas Road site - demolitions and site	B	6	G5	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
	London				preparation.											
720033	Hythe Road, London	55/62	-	-	Day: Old Oak Common - demolition and site preparation.	B	8	G5	T	-	-	-	-	-		
720034	Hythe Road, London	52/58	-	-	Day: Atlas Road site - demolitions and site preparation.	B	8	G5	T	-	-	-	-	-		
720035	Chandos Road, London	73/74	-	-	Day: Old Oak Common highway works - Victoria Road north and south widening works.	B	3	G5	T	-	-	-	-	-		
720036	Old Oak Common Lane, London	51/58	-	-	Day: Old Oak Common - demolition and site preparation.	B	4	G5	T	-	-	-	-	-		
720037	Telford Way, London	52/59	-	-	Day: Old Oak Common - demolition and site preparation.	B	8	G5	T	-	-	-	-	-		
720038	Telford Way, London	51/59	-	-	Day: Central Line overbridge phases 1 to 3 - Old Oak Common area bridge works (Old Oak Common Lane and Central Line bridge satellite compounds).	B	2	G5	T	-	-	-	-	-		
720039	Old Oak Lane, London	61/75	-	-	Day: Atlas Road site - demolitions and site preparation.	B	2	G5	T	-	-	-	D o	-		
720040	Volt Avenue, London	61/73	-	-	Day: Atlas Road site - demolitions and site preparation.	B	1	G5	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720041	Station Road, London	51/59	-	-	Day: Atlas Road site - demolitions and site preparation.	B	14	G5	T	-	-	-	-	-		
720042	Hythe Road, London	44/51	-	-	Day: Old Oak Common - demolition and site preparation.	B	6	G5	T	-	-	-	-	-		
720043	Salter Street, London	43/50	-	-	Day: Old Oak Common - demolition and site preparation.	B	5	G5	T	-	-	-	-	-		
720044	Hythe Road, London	59/68	-	-	Day: Old Oak Common - D-wall construction (east End Box).	B	2	G5	T	-	-	-	-	-		
720045	Hythe Road, London	57/67	-	-	Day: Old Oak Common - D-wall construction (east End Box).	B	2	G5	T	-	-	-	-	-		
720046	Hythe Road, London	62/73	-	-	Day: Old Oak Common - D-wall construction (east End Box).	B	1	G5	T	-	-	-	-	-		
720048	Bravington Road, London	46/51	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	2	G5	T	-	-	-	-	-		
720050	Claremont Road, London	67/76	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	4	G5	T	-	-	-	D 4	-	*	
720052	Kilburn Lane, London	50/55	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G4	T	-	-	-	-	-		
720053	Denmark Road,	56/64	-	-	Day: Salusbury Road vent shaft - demolition -	B	2	G3	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
	London				Salisbury Road redundant building.											
720054	Albert Road, London	68/75	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G3	T	-	-	-	D 21	-	*	
720054	Albert Road, London	68/75	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G5	T	-	-	-	D 4	-	*	
720055	Salisbury Road, London	50/55	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G4	T	-	-	-	-	-		
720055	Salisbury Road, London	50/55	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	3	G5	T	-	-	-	-	-		
720056	Salisbury Road, London	47/53	-	-	Day: Salisbury Road vent shaft - site set-up.	B	2	G3	T	-	-	-	-	-		
720056	Salisbury Road, London	47/53	-	-	Day: Salisbury Road vent shaft - site set-up.	B	9	G5	T	-	-	-	-	-		
720057	Harvist Road, London	50/56	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G3	T	-	-	-	-	-		
720058	Brondesbury Road, London	49/54	-	-	Day: Salisbury Road vent shaft - site set-up.	B	1	G5	T	-	-	-	-	-		
720060	Albert Road, London	58/63	-	-	Day: Salisbury Road vent shaft - demolition - Salisbury Road redundant building.	B	1	G5	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720064	Saltram Crescent, London	50/55	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	2	G5	T	-	-	-	-	-		
720065	Kilburn Lane, London	51/57	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G3	T	-	-	-	D 6	-	CSV04-No2*	
720069	Summerfield Avenue, London	46/51	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	4	G5	T	-	-	-	-	-		
720071	Victoria Road, London	40/45	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	3	G5	T	-	-	-	-	-		
720072	Hartland Road, London	42/48	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building	B	5	G5	T	-	-	-	-	-		
720073	Summerfield Avenue, London	47/53	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	6	G5	T	-	-	-	-	-		
720074	Albert Road, London	59/68	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	1	G5	T	-	-	-	-	-		
720077	Portnall Road, London	52/59	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	1	G5	T	-	-	-	-	-		
720081	Kilburn Lane, London	42/47	-	-	Day: Salusbury Road vent shaft - site set-up.	B	2	G5	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
720086	Carlton Vale, London	46/55	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G3	T	-	-	-	D 2	-	*	
720091	Bramshill Road, London	42/49	<40/41	-	Day: Atlas Road site - demolitions and site preparation; and Evening: Willesden EuroTerminal sidings main compound.	B	1	G3	T	-	-	-	-	-		
720092	Acton Lane, London	45/53	<40/45	-	Day: Atlas Road site - demolitions and site preparation; and Evening: Willesden EuroTerminal sidings main compound.	B	2	G3	T	-	-	-	-	-		
720115	Fortune Way, London	41/49	-	-	Day: Atlas Road site - demolitions and site preparation.	B	10	G5	T	-	-	-	-	-		
720116	Enterprise Way, London	42/51	-	-	Day: Atlas Road site - demolitions and site preparation.	B	10	G5	T	-	-	-	-	-		
720119	Brondesbury Road, London	50/57	-	-	Day: Salusbury Road vent shaft - demolition - Salusbury Road redundant building.	B	1	G5	T	-	-	-	-	-		
720120	Salusbury Road, London	42/47	-	-	Day: Salusbury Road vent shaft - site set-up.	B	15	G5	T	-	-	-	-	-		
720123	Herries Street, London	<40/42	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G4	T	-	-	-	-	-		

Assessment location		Impact criteria				Significance criteria									Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect	
		Day 0700-1900	Evening 1900-2300	Night 2300-0700											
720125	Kilburn Lane, London	45/51	-	-	Day: Salusbury Road vent shaft - site set-up.	B	1	G2	T	-	-	-	-	-	
720125	Kilburn Lane, London	45/51	-	-	Day: Salusbury Road vent shaft - site set-up.	B	18	G5	T	-	-	-	-	-	
720127	Kilburn Lane, London	47/54	-	-	Day: Salusbury Road vent shaft - site preparation works.	B	5	G5	T	-	-	-	-	-	
720139	Sunbeam Road, London	49/60	-	-	Day: Victoria Road crossover box compound - demolitions.	B	5	G5	T	-	-	-	-	-	
720140	Park Royal Road, London	45/56	-	-	Day: Victoria Road crossover box compound - demolitions.	B	3	G5	T	-	-	-	-	-	
720141	Sunbeam Road, London	44/55	-	-	Day: Victoria Road crossover box compound - demolitions.	B	2	G5	T	-	-	-	-	-	
720142	Gorst Road, London	43/53	-	-	Day: Victoria Road crossover box compound - demolitions.	B	11	G5	T	-	-	-	-	-	
720143	Standard Road, London	42/52	-	-	Day: Victoria Road crossover box compound - demolitions.	B	8	G5	T	-	-	-	-	-	
720255	Station Road, London	49/58	50/51	50/51	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main	B	1	G4	T	-	-	-	-	-	

Assessment location		Impact criteria				Significance criteria										Significant effect
ID	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade			construction activity resulting in highest forecast noise levels	Type of effect	Number of impacts represented	Type of receptor	Receptor design	Existing environment	Unique feature	Combined impact	Impact duration [months]	Mitigation effect		
		Day 0700-1900	Evening 1900-2300	Night 2300-0700												
					compound.											
720255	Station Road, London	49/58	-	-	Day: Atlas Road site - demolitions and site preparation.	B	5	G5	T	-	-	-	-	-		
720256	Station Road, London	46/55	41/46	-	Day: Atlas Road site - demolitions and site preparation; and Evening: Willesden EuroTerminal sidings main compound.	B	1	G3	T	-	-	-	-	-		
720257	Station Road, London	45/53	40/45	-	Day: Atlas Road site - demolitions and site preparation; and Evening: Willesden EuroTerminal sidings main compound.	B	1	G3	T	-	-	-	-	-		
720258	Station Road, London	48/55	-	-	Day: Atlas Road site - demolitions and site preparation.	B	5	G5	T	-	-	-	-	-		
720265	Wendover Road, London	44/52	<40/43	39/43	Day: Atlas Road site - demolitions and site preparation; Evening: Willesden EuroTerminal sidings main compound; and Night: Willesden EuroTerminal sidings main compound.	B	1	G4	T	-	-	-	-	-		
720265	Wendover Road, London	44/52	-	-	Day: Atlas Road site - demolitions and site preparation.	B	2	G5	T	-	-	-	-	-		

Airborne sound: indirect effects

- 4.3.7 Construction road traffic associated with the construction phases of the Proposed Scheme will generate airborne noise. The change in traffic noise level at a reference distance of 10m from the edge of the nearside carriageway resulting from the presence of construction traffic for a given road has been predicted, based upon traffic information for the Proposed Scheme. The results for the roads where potentially significant effects could arise are presented in Table 3.
- 4.3.8 Explanation of the information within Table 3 is provided in Volume 5: Appendix SV-001-000, with the following additional notes:



Where the significant effect column is highlighted in dark red, then a significant effect is identified on nearby communities or individual receptors

Change values



Yellow denotes a minor impact – a change of between 3 and 5dB or between 1 and 3dB where a high existing sound level is identified



Orange denotes a moderate impact – a change of between 5 and 10dB or between 3 and 5dB where a high existing sound level is identified



Red denotes a major impact – a change of more than 10dB or more than 5dB where a high existing sound level is identified

Table 3: Assessment of construction traffic noise levels

Road name	Link	Future baseline sound level (dB)	Future baseline sound level + construction traffic (dB)	Change (dB)	Significant effect
		Daytime L _{pAeq,16hr} 0700-23:00 free-field	Daytime L _{pAeq,16hr} 0700-2300 free-field		
Atlas Road	Off Old Oak Common Lane, Old Oak Common	55.4	62.8	+7.4	*
Channel Gate Road	Off Old Oak Common Lane, Old Oak Common	52.9	56.7	+3.8	*

4.4 Assessment of significant effects

Residential receptors: direct effects – individual dwellings

- 4.4.1 Taking account of the avoidance and mitigation measures set out in the previous paragraphs, the following residential buildings are forecast to experience noise levels higher than the noise insulation trigger levels as defined in the draft CoCP. For daytime construction the trigger level is 75dB² measured outdoors, or the existing ambient if this is already above this level. The equivalent night-time trigger level is 55dB³:
- William Dunbar House (approximately 10 dwellings), Albert Road;
 - Cullen House (approximately 10 dwellings), Salusbury Road;
 - Claremont Court, Claremont Road (approximately five dwellings) and 307 Kilburn Road;
 - 332 to 335 Kilburn Lane (approximately 15 dwellings);
 - 30 buildings/houses (approximately 30 dwellings) on Stephenson Street;
 - four residential buildings (approximately 25 dwellings) on Shaftesbury Gardens;
 - 75 buildings (approximately 75 dwellings facing east and west – those facing west are forecast to exceed the night-time trigger) on Wells House Road; and
 - three residential buildings (approximately 60 dwellings) on the Victoria Road/Chase Road gyratory.
- 4.4.2 The mitigation measures, including noise insulation, will reduce noise inside all dwellings such that it does not reach a level where it will significantly affect⁴ residents.

Residential receptors: direct effects – communities

- 4.4.3 With regard to noise outside dwellings, the assessment of temporary effects takes account of construction noise relative to existing sound levels.
- 4.4.4 In locations with lower existing sound levels, construction noise adverse effects⁴ are likely to be caused by changes to noise levels outside dwellings. These may be considered by the local community as an effect on the acoustic character of the area and hence be perceived as a change in the quality of life. These adverse effects are considered to be significant when assessed on a community basis taking account of the local context.
- 4.4.5 The 'number of impacts represented column' of Table 1 identifies the approximate number of receptors potentially impacted at each assessment location as a result of noise from temporary construction activities. Further analysis of the predicted noise

² L_{pAeq,0800-1800} measured at the façade.

³ L_{pAeq,2200-0700} measured at the façade, outdoors, or the existing ambient if this is already above this level.

⁴ Further information is provided in Volume 5: Appendix SV-001-000.

levels and receptor characteristics at each assessment location has been undertaken. This analysis has taken account of a range of factors including the changes in predicted noise level with height, the orientation of the receptor and additional screening effects. At some locations this analysis has identified that not all receptors represented by the assessment location are likely to be subject to a significant effect. The results of this analysis and the number of receptors identified as being subject to a significant effect are described in Table 4.

4.4.6 The direct adverse construction noise effects⁴ on the areas of the residential communities identified in Table 4 are considered to be significant.

Table 4: Direct adverse effects on residential communities and shared open areas that are considered to be significant on a community basis

Significant effect number	Type of significant effect	Time of day	Location	Cause (construction activities)	Assumed duration of impact and details
CSV04-Co1	Construction noise	Daytime	Approximately: 20 dwellings in Winterleys, Albert Road; 20 dwellings in Watling Place, Albert Road; 10 dwellings in Bond House, Rupert Road; 10 dwellings in Thames Court, Albert Road; and 45 dwellings in William Dunbar House, Albert Road	Salisbury Road vent shaft – demolitions, site setup, site preparation, diaphragm wall construction and top/intermediate slab construction. Typical and highest monthly noise levels of 60-70dB and 70-75dB	Six months to one year and four months
CSV04-Co2	Construction noise	Daytime	Approximately: 30 dwellings in Cullen House, Salisbury Road; 15 dwellings on Kilburn Lane; 10 dwellings in Claremont Court, Claremont Road; 10 dwellings on Claremont Road; and 15 dwellings on Kilburn Lane	Salisbury Road vent shaft – demolitions, site setup, site preparation, diaphragm wall construction and top/intermediate slab construction. Typical and highest monthly noise levels of 65-75dB and 75-85dB	Six months to one year and six months
CSV04-Co3	Construction noise	Daytime	Approximately 20 dwellings on Brondesbury Road	Salisbury Road vent shaft – demolitions. Typical and highest monthly noise levels of 60dB and 70dB	Four months
CSV04-Co4	Construction noise	Daytime	Approximately 30 dwellings on Stephenson Street and 10 dwellings on Goodhall Street	Atlas Road satellite compound – demolitions and site preparation. Typical and highest monthly noise levels of 60-65dB and 65-70dB	Four months

		Night-time	Approximately 30 dwellings on Stephenson St and 10 dwellings on Goodhall Street	Atlas Road satellite compound – general works. Typical and highest monthly noise levels of 45-55dB and 50-60dB	Five years and six months
CSV04-Co5	Construction noise	Daytime	Approximately 10 dwellings on Old Oak Common Lane and 30 dwellings on Shaftesbury Gardens	Victoria Road north/south widening works and Atlas Road site demolitions and site preparation works. Typical and highest monthly noise levels of 60dB and 75dB for properties located on Old Oak Common Lane to the north of Shaftesbury Gardens and 78dB and 80dB for properties located on Shaftesbury Gardens overlooking Victoria Road	One year and eight month (Shaftesbury Gardens) and five years and one months (Old Oak Common Lane)
CSV04-Co6	Construction noise	Daytime	Approximately 25 dwellings on and close to Midland Terrace	Victoria Road tunnel drive main compound demolition and site set up works and Old Oak Common demolition and site preparation including diaphragm walling. Typical and highest monthly noise levels of 55-60dB and 65-70dB	One year and one month (Old Oak Common works) and one year and nine months (Victoria Road tunnel drive works)
CSV04-Co7	Construction noise	Daytime	Approximately 100 dwellings on Wells House Road	Old Oak Common station main compound and Victoria Road tunnel drive main compound works including demolitions. Typical and highest monthly noise levels of 60-75dB and 75-80dB	One year and three months (Victoria Road tunnel drive main compound) and four years and seven months (Old Oak Common station main compound)
		Evening	Approximately 30 dwellings on Wells House Road	Victoria Road tunnel drive main compound general works. Typical and highest monthly noise levels of 55dB and 60dB	One year and three months
		Night-time	Approximately 40 dwellings on Wells House Road	Victoria Road tunnel drive main compound – general works and Euston tunnel and HS1 Link tunnel construction work. Typical and highest monthly noise levels of	Three years and four months to five years

				55dB and 60dB	
CSV04-Co8	Construction noise	Daytime	Approximately 175 dwellings on Victoria Road/Chase Road roundabout, North Acton	Victoria Road crossover box main compound demolitions and general works. Typical and highest monthly noise levels of 60-65dB and 75dB	One year and 11 months

- 4.4.7 At Assessment Location 700413 the quantitative assessment has indicated that a significant effect will occur at night but not during the day on dwellings on Stephenson Street. However, on a precautionary basis a number of the receptors on Stephenson Street have been included in the CSV04-Co4 daytime community effect.
- 4.4.8 At Assessment Location 720039 the quantitative assessment has not indicated that a significant effect is likely at dwellings on Old Oak Common Lane. However, on a precautionary basis dwellings in this location have been included within the CSV04-Co5 community effect.
- 4.4.9 At Assessment Location 720027 the quantitative assessment has not indicated that a significant effect is likely at dwellings on Goodhall Street. However, on a precautionary basis dwellings on the southern end of this street have been included within the CSV04-Co4 community effect.
- 4.4.10 At Assessment Location 720002 it has been identified that two dwellings are forecast to experience noise levels higher than the noise insulation trigger levels as defined in the draft CoCP (CSV04-Do1). Taking into account the number of dwelling subject to these noise levels a significant community effect has not been identified.
- 4.4.11 At Assessment Location 700056 a significant effect has been identified at dwellings on Midland Terrace, this has been denoted CSV04-Co6. This effect has been identified due to construction activities at the Old Oak Common work site and the Victoria Road tunnel drive work site. The information in Table 1 refers to activities at the old Oak Common works site due to the position of the assessment location on the east façade of the buildings on Midland Terrace. However, activities at the Victoria Road tunnel site have also been considered and are reflected in the increased construction noise levels referred to in Table 4.

Residential receptors: indirect effects

- 4.4.12 Significant noise effects on residential receptors arising from construction traffic are unlikely to occur in this area.
- 4.4.13 A change in noise level of approximately 7dB has been identified on Atlas Road in Old Oak Common. There are no residential receptors in close proximity to this road that are likely to be affected by this change. Therefore no significant effect has been identified.

4.4.14 A change in noise level of approximately 4dB has been identified on Channel Gate Road in Old Oak Common. Taking into account the orientation of the nearby buildings and the existing baseline sound levels from other sources in the area a significant effect has not been identified at residential properties close to this road.

4.4.15 The construction railhead at the EuroTerminal at Willesden will be used for the movement of excavated materials, construction materials deliveries and as an access to the Proposed Scheme track route, for ballast and track laying. Movement of trains to and from the sidings and railheads on the classic rail network will utilise available train paths and will comprise a very small percentage of total train movements on the classic rail network. It is therefore unlikely that train movements associated with construction rail heads will result in a significant change in rail noise levels at residential receptors situated close to the classic rail network.

Non-residential receptors: direct effects

4.4.16 Significant construction noise or vibration effects have been identified on a reasonable worst case basis on the following non-residential receptors:

- St. Luke's Church, Kilburn Lane (CSV04-No2). Significant noise effects have been identified during the daytime with noise levels rising at times to around 60dB over a period of approximately six months commencing in 2018 during the construction of the Salusbury Road vent shaft;
- Blessing Medical Centre, 307 Kilburn Lane (CSV04-No3). Significant noise effects have been identified during the daytime with noise levels rising at times to around 80dB over a period of approximately one year and six months commencing in 2018 during the construction of the Salusbury Road vent shaft;
- hostel at Colas Ltd, north entrance, Old Oak Common depot, Old Oak Common Lane (CSV04-No4). Significant noise effects have been identified during the daytime with noise levels rising at times to 62dB over a period of approximately three years and eight months commencing in 2018 during the construction works at Old Oak Common;
- Holiday Inn Express, Victoria Road, North Acton (CSV04-No5). Significant effects have been identified during the daytime and night-time with noise levels rising to around 75 and 60dB respectively. These effects are forecast to occur over a period of approximately four years and 9 months during the day and approximately six years and three months during the night commencing 2017; and
- commercial operations in Boden House (CSV04-No6). Significant effects have been identified during the daytime with noise levels rising at times to around 86dB. These effects are forecast to occur over a period of approximately one year and 9 months during the day.

4.4.17 A construction noise impact was predicted at commercial operations on Kilburn Lane represented by Assessment Location 700493. The reported noise level represents the worst affected floor which is the second floor. The commercial premises are situated

on the ground floor, where predicted levels are 69dB², and will also be subject to additional screening. Noise levels predicted at the ground floor are below 75dB² and as such do not result in a significant effect.

- 4.4.18 At Assessment Location 720065 the quantitative assessment has not indicated that a significant effect will occur at St Luke's Church, Kilburn due to the baseline levels in the area. However, on a precautionary basis a temporary construction noise effect has been identified at St Luke's Church, Kilburn (CSV04-No2)
- 4.4.19 A construction noise impact was predicted at commercial operations on Kilburn Lane represented by Assessment Location 709503. The reported noise level represents the worst affected floor which is the third floor. The commercial premises are situated on the ground floor where predicted levels are 66dB². Noise levels predicted at the ground floor are below the impact criteria for this type of receptor and as such do not result in a significant effect.
- 4.4.20 A construction noise impact was predicted at the dental surgery on Kilburn Lane represented by Assessment Location 709506. The reported noise level represents the worst affected floor which is the third floor. The commercial premises are situated on the ground floor where predicted levels are 59dB². Noise levels predicted at the ground floor are below the daytime baseline sound level in this location and as such do not result in a significant effect.
- 4.4.21 A construction noise impact was predicted at commercial operations on School Road represented by Assessment Location 720002. The reported noise level represents the worst affected floor which is the second floor. The commercial premises are situated on the ground floor, where predicted levels are 66dB², and will also be subject to additional screening. Noise levels predicted at the ground floor are below 75dB² and as such do not result in a significant effect.
- 4.4.22 A construction noise impact was predicted at commercial operations on Claremont Road represented by Assessment Location 720050. The reported noise level represents the worst affected floor which is the fourth floor. The commercial premises appear to be situated on the ground floor, where predicted levels are 63dB². Noise levels predicted at the ground floor are below the 75dB² assessment criteria and as such do not result in a significant effect.
- 4.4.23 A construction noise impact was predicted at commercial operations and a community hall on Albert Road represented by Assessment Location 720054. The reported noise level represents the worst affected floor which is the 12th floor. The commercial premises and community hall are situated on the ground floor, where predicted construction noise levels are 60dB². Noise levels predicted at the ground floor are below the baseline sound level in this location and as such do not result in a significant effect.
- 4.4.24 A construction noise impact was predicted at the Oxford Kilburn Club on Denmark Road represented by Assessment Location 720086. The reported noise level represents the worst affected floor which is the 12th floor. The Oxford Kilburn Club is situated on the ground floor, where predicted construction noise levels are 44dB².

Noise levels predicted at the ground floor are below the baseline sound level in this location and as such do not result in a significant effect.

Non-residential receptors: indirect effects

- 4.4.25 Significant noise effects on non-residential receptors arising from construction traffic are unlikely to occur in this area.
- 4.4.26 Changes in noise level of approximately 4 and 7dB have been identified on Channel Gate Road and Atlas Road respectively. Taking into account the baseline sound levels in these areas, the absolute level of predicted construction traffic noise and the proximity of sensitive receptors, significant effects have not been identified on non-residential receptors located close to these roads.
- 4.4.27 The construction railhead at the EuroTerminal at Willesden will be used for the movement of excavated materials, construction materials deliveries and as access to the Proposed Scheme track route, for ballast and track laying. Movement of trains to and from the sidings and railheads on the classic rail network will utilise available train paths and will comprise a very small percentage of total train movements on the classic rail network. It is therefore unlikely that train movements associated with construction rail heads will result in a significant change in rail noise levels at non-residential receptors situated close to the classic rail network.

Cumulative effects from the Proposed Scheme and other committed development

- 4.4.28 This assessment has considered the potential cumulative construction noise effects of the Proposed Scheme and other committed developments (see Section 2.1).
- 4.4.29 There are a number of developments in the area that will result in cumulative construction adverse noise or vibration effects at nearby receptors if they are built at the same time as the Proposed Scheme:
- development of residential flats on Salusbury Road;
 - further development of the land at the junction of Chase Road and Victoria Road, North Acton; and
 - extension of the existing Ramada Hotel to south of the Victoria Road/Chase Road roundabout, North Acton.
- 4.4.30 There are a number of potentially noise-sensitive committed developments in this area. However, they have been identified on sites where existing sensitive receptors are located. These existing receptors have been considered as part of this assessment and although the committed developments may result in changes to the number of impacts identified no additional significant effects have been identified.